

# INTERNATIONAL SEARCH REPORT

International Application No.

PCT/JP2004/017670

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC 7 G01B15/02 G06M9/00

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
 IPC 7 G01B G06M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 007, no. 012 (M-186), 19 January 1983 (1983-01-19) & JP 57 170347 A (SHINODA SETSUKEI JIMUSHIYO:KK), 20 October 1982 (1982-10-20) abstract	6-8
A	-----	1-5,9-13
A	PATENT ABSTRACTS OF JAPAN vol. 018, no. 624 (P-1833), 28 November 1994 (1994-11-28) & JP 06 241763 A (TOPPAN PRINTING CO LTD), 2 September 1994 (1994-09-02) cited in the application abstract	1-13
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Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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Date of the actual completion of the international search

Date of mailing of the International search report

28 February 2005

09/03/2005

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**C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DE 199 22 125 A1 (BOEWE SYSTECH AG) 30 November 2000 (2000-11-30) column 3, line 59 - column 7, line 47; figures 1-5 -----	1-13
A	US 5 539 322 A (ZOUGHI ET AL) 23 July 1996 (1996-07-23) column 3, line 52 - column 6, line 16; figures 1-4 -----	1-13
A	US 3 490 037 A (ROYSON V. WILLIAMS) 13 January 1970 (1970-01-13) column 2, line 41 - column 3, line 10; figure 1 -----	1-13

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Information on patent family members

International Application No

PCT/JP2004/017670

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
JP 57170347	A 20-10-1982	NONE		
JP 06241763	A 02-09-1994	NONE		
DE 19922125	A1 30-11-2000	WO EP	0070305 A1 1177410 A1	23-11-2000 06-02-2002
US 5539322	A 23-07-1996	NONE		
US 3490037	A 13-01-1970	GB DE	1120993 A 1548178 A1	24-07-1968 11-09-1969